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is everywhere abundant. This led to the idea that it might have modes of reproduction independent of the *Uromyces*. Careful search among many sections finally revealed the tip of a branch of mycelium ending in a clavate head. Further sections through portions of the leaves first discolored by the fungus showed this body to be an oögonium and accompanied by an antheridium, by the contents of which it appeared to be fertilized. Subsequently it develops into the *Æcidium*. N. L. B.

Index to Recent American Botanical Literature.

Arauja (Schubertia) graveolens. (Gard. Chron., iv., 271; fig. 33.)
Artificially Fertilized Flowers.—A Protection for.—E. S. Goff.
 (Garden and Forest, i., 339; illustrated.)

Asa Gray and Darwinism.—Lester F. Ward. (Reprinted from
 The Historical American, for Aug., 1888; illustrated with
 portrait of Dr. Gray.) A pleasing resumé of the position that
 Dr. Gray occupied in the controversy over the principles of
 organic evolution.

Asa Gray.—Memorial of. (Pamph., 8vo., pp. 45.)

An account of the proceedings of the Adjourned Annual Meeting of the American Academy of Arts and Sciences, held in Boston, Wednesday, June 13th, 1888, to commemorate the life and services of the great botanist. The addresses of Prof. Joseph Lovering, Augustus Lowell, Prof. Eliot, Prof. G. L. Goodale, Prof. W. G. Farlow and Sereno Watson are printed in full.

Asterina, Dimerosporium and Meliola.—Synopsis of the North American Species of.—George Martin. (Reprinted from Journ. Mycol.)

Buzzards Bay.—Fuly on the Shores of.—M. G. Van Rensselaer. (Garden and Forest, i., 327.) A popular account of the most conspicuous plants of the region.

Desmids—North Carolina.—A Preliminary List of.—W. L. Poteat. (Journ. Elisha Mitchell Sci. Soc., v., 1-4.) Eighty-one species are enumerated.

Entomophthoræ of the United States.—The.—C. E. Bessey. (Am. Nat., xxii., 643-645.) A review and synopsis of the work of Mr. Roland Thaxter, as published in the Mem. Bost.

Soc. Nat. Hist., April, 1888. Mr. Thaxter, whose address is New Haven, Conn., desires correspondence on the subject and specimens.

Ephedra. H. H. Rusby. (Drug. Bull., ii., 219-222; illustrated.)

An account of the habitat and medicinal properties of the species of this genus, followed by a table of classification for the six species credited to the United States, viz.: *E. Nevadensis*, Wats., *E. antisiphilitica*, C. A. Meyer, *E. pedunculata*, Engelm., *E. trifurca*, Torrey, *E. Californica*, Wats., and *E. Torreyana*, Wats.

Erythronium Hendersoni. (Gard. and Forest, i., 316, 317, fig. 50.)

Forestry.—*Annual Report of the Division of*—for 1887. (Pamph., 4to., pp. 156; Washington, D. C., 1887.) Mostly concerning the economic aspect of the subject.

Hardy Flowering Shrubs.—Lena Leslie. (Vick's Mag., ii., 266, 267.) A plea for the cultivation of more of our native plants.

Harpalum (Helianthus) rigidum. (Garden, xxxiv., 223; illustrated.)

Heliotropism: The Turning Motions of Plants.—Conway McMillan. (Pop. Sci. Monthly, xxxiii., 674-682.) A popular resumé of the subject.)

Hybrid Oaks on Staten Island.—Arthur Hollick and W. T. Davis. (Proc. Nat. Sci. Ass'n of S. I., Sept. 8th, 1888.)

The discovery is reported, at Tottenville, Staten Island, of a number of peculiar oaks, amongst which are *Quercus heterophylla*, Michx., and *Q. Rudkini*, Britton, besides others which are described as undoubtedly hybrids between *Q. Phellos* and either *Q. palustris*, *Q. tinctoria*, or *Q. coccinea*. From its position as one of a series of these peculiar forms the authors conclude that *Q. heterophylla* is plainly a hybrid.

Lichens.—*A Synopsis of the North American—Part II*.—Edward Tuckerman. (Pamph., 8vo., pp. 176. New Bedford, 1888. Sold by E. Nelson, Amherst, Mass.)

This part, compiled by Mr. Henry Willey from the posthumous manuscript of Prof. Tuckerman, comprises the *Lecideacei* and part of the *Graphidacei*. Mr. Willey also adds an appendix, containing notes of his own on many species. This consists of two portions; the first is composed of *Lecideei* referred to in

Professor Tuckerman's manuscripts, of which Mr. Willey has seen specimens, 13 species; the second, descriptions of native and exotic lichens from his occasional writings, 34 of the former and 110 of the latter. The accompanying index includes also the index to Part I, which was published in 1882.

Lilium Canadense. (Garden, xxxiv., 182; illustrated.)

Lycium pallidum. (Garden and Forest, i., 340, fig. 54.)

Marine Algæ of the West Indian Region.—*Catalogue of the*.—Geo. Murray. (Journ. Bot., xxvi., 237-243; continued.)

Native Ferns.—*Cultivation of*.—Robt. T. Jackson. (Gard. and Forest, i., 317, 318, 330, 331, 340-342, 352-354.)

Old Trees.—*The Rejuvenescence of*. (Garden and Forest, i., 349, 350; illustrated.)

Palestine.—*Flora of*.—Henry Gillman. (Am. Nat., xxii., 642, 643.)

Pentstemon rotundifolius. (Gard. Chron., iv., 264, fig. 31.)

Primula Rusbyi. (Gard. and Forest, i., 320.)

Pseudophœnix Sargenti. (Garden and Forest, i., 352, figs. 55 and 56.)

Pyrus coronaria. (Garden, xxxiv., 206; illustrated.)

Rhododendrons. (Vick's Mag., ii., 251-263; illustrated.)

Ribes speciosum. (Garden, xxxiv., 230.)

Robinia hispida.—W. Goldring. (Garden, xxxiv., 174; illustrated.)

Rubus deliciosus. (Garden, xxxiv., 230; illustrated.)

Rubus odoratus. (Garden, xxxiv., 230, 231; illustrated.)

Sycocarpus Rusbyi.—*Pharmacognostical Notes on the Bark of*.—Jos. Schrenk. (Drug. Bull., ii., 222, 223; illustrated.)

Tumble-Weed.—*A Miniature*.—C. E. Bessey. (Am. Nat., xxii., 645, 646.) This latest addition to the "tumble-weed" literature is *Townsendia sericea*, Hook. The achenes with their pappus comprise the part of the plant that "tumbles."